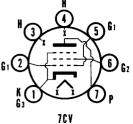


## **SYLVANIA TYPE**

BEAM POWER AMPLIFIER



#### MECHANICAL DATA

Bulb	T-51⁄4
Base	E7-1, Miniature Button 7-Pin
Outline	5-3
BasingCathode	Coated Unipotential
Mounting Position	Any

### **ELECTRICAL DATA**

#### **HEATER CHARACTERISTICS AND RATINGS** Average Characteristics

The same of the sa	Series Operation
Heater Voltage Heater Current <sup>1</sup> Heater Warm-up Time <sup>2</sup>	100 Ma

Ratings (Design Maximum Values)	541 54
Heater Current <sup>3</sup>	Min-Max 94-106 Ma
Maximum Heater-Cathode Voltage Heater Negative with Respect to Cathode	
Total D C and Peak	200 Volts
D C	100 Volts 200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshie	elded)
Grid No. 1 to Plate	0.6 μμf
Input: g to (h+k+g2+g3)	12 µµf
Output: p to $(h+k+a2+a3)$	6.0 uuf

RATINGS (Design Maximum System)	
Plate Voltage	150 Volts Max.
Grid No. 2 Voltage	130 Volts Max.
Plate Dissipation	5.4 Watts Max.
Grid No. 2 Dissipation	1.2 Watts Max.
Grid No. 1 Circuit Resistance	THE THREE INTERN
Fixed Bias	0.1 Megohm Max.
Cathode Bias	0.5 Megohm Max.

Cathode Bias	0.5 Megohm I
CHARACTERISTICS AND TYPICAL OPERATION	
Class A1 Amplifier	
Plate Voltage	110 Volts
Grid No. 2 Voltage	110 Volts
Grid No. 1 Voltage	-7.5 Volts
Peak AF Grid No. 1 Voltage	7.5 Volts
Zero-Signal Plate Current	30 Ma

2.8 Ma 5500 µmhos 21,500 Ohms Plate Resistance (approx.).
Load Resistance 2800 Ohms 1.2 Watts 10 Percent

#### NOTES:

 For series operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater current.
 Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.

voltage 3. Heater supply variations shall be restricted to maintain heater current within the specified values.

#### APPLICATION

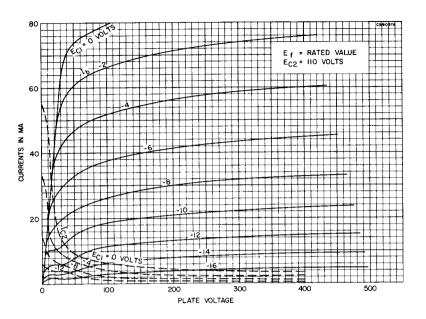
The Sylvania Type 32ET5A is a miniature beam power pentode designed for service as an audio output amplifier. It features high efficiency at relatively low plate and Grid No. 2 voltage.

Type 32ET5A designed for use in AC-DC radio receivers incorporates a 100 Ma heater controlled for heater warm-up time.

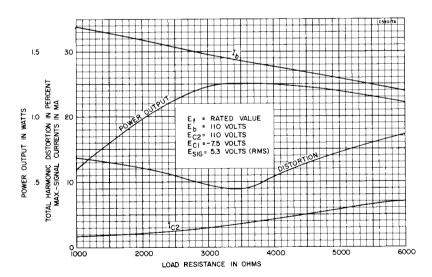
Type 32ET5A replaces obsolete Type 32ET5.

# SYLVANIA TYPE 32ET5A (Cont'd)

## **AVERAGE PLATE CHARACTERISTICS**



#### **OPERATIONAL CHARACTERISTICS**



## SYLVANIA ELECTRONIC TUBES